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APPLICATION N	√ O.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/757,768		01/10/2001	Gary Lomp	I-2-91.6US	8696	
24374	7590	07/12/2004		EXAM	EXAMINER	
VOLPE AND KOENIG, P.C.				NGUYEN, BRIAN D		
DEPT. IOUNITED		SUITE 1600		ART UNIT	PAPER NUMBER	
	TH 17TH S ELPHIA	STREET PA 19103		2661	15	
111121122111111, 111 17103				DATE MAIL ED: 07/12/200	DATE MAIL ED: 07/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	plicant(s)						
	09/757,768	LOMP ET AL.						
Office Action Summary	Examiner	Art Unit	-					
	Brian D Nguyen	2661 .						
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address	_					
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may reply within the statutory minimum of the dwill apply and will expire SIX (6) Motatute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).						
Status								
1)⊠ Responsive to communication(s) filed on th	e application filed 1/10/01.							
• •	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) ☑ Claim(s) <u>15-56</u> is/are pending in the application 4a) Of the above claim(s) is/are with 05) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>15-19,22-26,29-33,36-40,43-47,50</u> 7) ☑ Claim(s) <u>20,21,27,28,34,35,48,49 and 55</u> is 8) ☐ Claim(s) are subject to restriction and	drawn from consideration. 0-54 and 56 is/are rejected. 6/are objected to.							
Application Papers		•						
9)☐ The specification is objected to by the Exam	niner.							
10)⊠ The drawing(s) filed on <u>10 January 2001</u> is/s	are: a)⊠ accepted or b)□	objected to by the Examiner.						
Applicant may not request that any objection to	• • •	• •						
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the		• •						
Priority under 35 U.S.C. § 119		,						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in priority documents have bee reau (PCT Rule 17.2(a)).	Application No n received in this National Stage						
Attachment(s)								
1) X Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 4 & 6-14. 	Paper No	o(s)/Mail Date Informal Patent Application (PTO-152)						
Patent and Trademody Office			_					

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DETAILED ACTION

Claim Objections

1. Claims 16, 18-19, 23-28, 30-33, 44-47, 51-52, and 55-56 are objected to because of the following informalities:

Claim 16, line 3, it is suggested to change "a quadrature-phase angle" to ---a quadrature-phase (Q) angle---

Claims 18-19 are objected to under 37 CFR 1.75 as being a substantial duplicate of claims 16-17. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim 23 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 22 because the limitations in claim 23 is the same as the limitations in line 6-7 of claim 22.

Claim 30, line 3, it is suggested to change "a quadrature-phase angle" to ---a quadrature-phase (Q) angle---.

Claims 32-33 are objected to under 37 CFR 1.75 as being a substantial duplicate of claims 30-31. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim.

See MPEP § 706.03(k).

Claim 44, line 3, it is suggested to change "a quadrature-phase angle" to ---a quadrature-phase (Q) angle---.

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Claims 46-47 are objected to under 37 CFR 1.75 as being a substantial duplicate of claims 44-45. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim 51 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 50 because the limitations in claim 51 is the same as the limitations in line 6-7 of claim 50.

Claim 52, line 1, it is suggested to insert ---circuit--- after "said acquisition".

Claim 55, line 2, it is suggested to change "ling codes" to ---long codes---.

Claim 56, line 1, it is suggested to insert ---circuit--- after "said acquisition".

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 36-42, 54 and 56 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 36-42 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete because there are no steps in the claims.

Claim 40 recites the limitation "the first long code" and "the second long code" in line 4.

There is insufficient antecedent basis for this limitation in the claim.

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Claim 42 recites the limitation "the first phase angle" and "the second phase angle" in lines 5-6. There is insufficient antecedent basis for this limitation in the claim.

Claim 54 recites the limitation "the first long code" and "the second long code" in line 4.

There is insufficient antecedent basis for this limitation in the claim.

Claim 56 recites the limitation "the first phase angle" and "the second phase angle" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 15-19, 22-26, 29-33, 36-40, 43-47, and 50-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al (5,619,526) in view of Witter (5,627,835).

Regarding claim 15, Kim discloses a CDMA system comprising generating a first and second long codes; transmitting the long codes at a first and second phase angles; and acquiring the first and second long codes (see col. 2, line 38-col. 3, line 8). Kim does not explicitly disclose searching N/2 chips. However, searching N/2 chips is a matter of choice. Witter discloses a range of the search window size (see col. 1, lines 29-35; col. 4, lines 28-60). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to select a search window size, such as N/2, as taught by Witter in the system of Kim in order to meet specific needs.

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Regarding claims 16-19, Kim further discloses in-phase and quadrature phase angles (see I and Q channel in figure 3).

Regarding claims 22-26 and 36-40, claims 22-26 and 36-40 are method claims that have substantially all the limitation of respective method claims 15-19 with in-phase and quadrature phase is replaced by M-ary phase. Therefore, they are subject to the same rejection.

Regarding claims 29-33, claims 29-33 are system claims that have substantially all the limitation of respective method claims 15-19. Therefore, they are subject to the same rejection.

Regarding claims 43-47, claims 43-47 are system claims that have substantially all the limitation of respective method claims 15-19. Therefore, they are subject to the same rejection.

Regarding claims 50-54, claims 50-54 are system claims that have substantially all the limitation of respective method claims 15-19 with in-phase and quadrature phase is replaced by M-ary phase. Therefore, they are subject to the same rejection.

Allowable Subject Matter

- 6. Claims 20-21, 27-28, 34-35, 48-49, and 55 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 41-42 and 56 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian D Nguyen whose telephone number is (703) 305-5133. The examiner can normally be reached on 7:30-6:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Olms can be reached on (703) 305-4703. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

// BRIAN NGUYEN
6/26/04 PRIMARY EXAMINER